

# SOLENOID

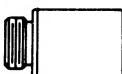
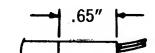
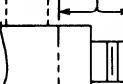
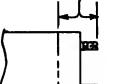
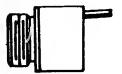
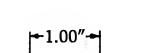
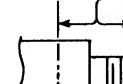
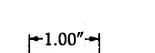
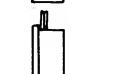
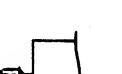
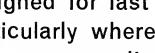
## selector chart

MANUFACTURING DIVISION OF



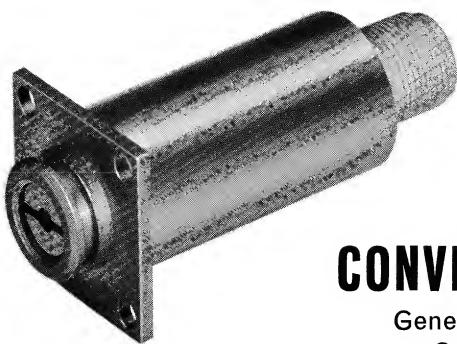
516 N. MICHIGAN ST.  
SOUTH BEND, INDIANA

# STANDARD BASIC UNITS • PRECISION SEALED DESIGN

MOUNTING	LEAD TERMINATION	ARMATURE TERMINATION	ALTERNATING CURRENT Rectifier Package
(6) Mounting	(7) Leads	(8) Armature	(9) Package, If A.C.
Thread			
Flange			Rectifiers in can
Bracket			Rectifiers in lead assembly
Thread			
Flange			Available in lead assembly only
Thread			
Flange			Available in lead assembly only
Thread			
Flange			
Type A	Type B	Type C	The MODULAR limited inductance DC solenoid is designed for fast response particularly where intermittent power application permits a high current coil. A modification of the DC solenoid is used directly on AC without rectification.
<ul style="list-style-type: none"> <li>• Low Cost</li> <li>• Capacitor Type Cut-off</li> <li>• Min. Time Between Cycles—200 MS</li> <li>• Polarized</li> <li>• Solid State Potted Components</li> </ul>	<ul style="list-style-type: none"> <li>• Moderate Cost</li> <li>• Adjustable Sharp Cut-off</li> <li>• Min. Time Between Cycles—50 MS</li> <li>• Polarized</li> <li>• Solid State Potted Components</li> </ul>	<ul style="list-style-type: none"> <li>• High Ambient Operation</li> <li>• Sharp Cut-off</li> <li>• Min. Time Between Cycles—25-50 MS</li> <li>• Polarized</li> <li>• Solid State—High Temperature Potted Components</li> </ul>	Driver Control can be used with the 10% intermittent Modular DC Solenoid to give fast response. It can be used with any intermittent DC solenoid to give high force in a small package with low continuous current drain. Special controls are available for time delay and other applications.

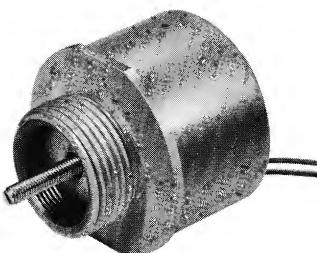
A complete line designed to offer, in basically standardized units, the features most requested in Industrial Automation...Aerospace...Computers. The first complete line to offer solid and laminated sealed construction, with SOLID STATE control as required.

# SOLENOIDS



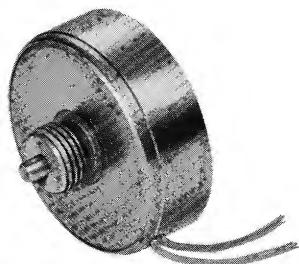
## CONVENTIONAL

General Purpose  
Cylindrical



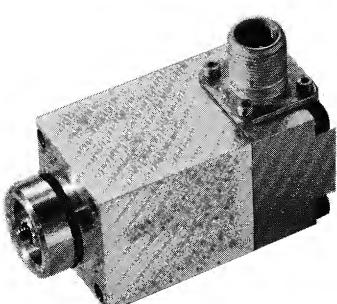
## COMPACT

General Purpose • Short



## WAFER®

Short Stroke • Flat



## MODULAR

- Long Life
- Fast Cycle
- Laminated, Low-loss Core
- Dry Coil for Pressure Application



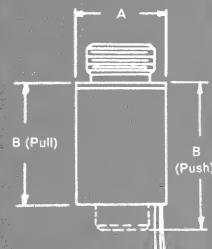
## DRIVER CONTROL

### BASIC SOLENOID — Direct Current

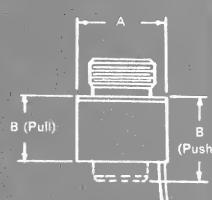
On Inquiries or Orders Specify

(1) Series No. (2) Force and Stroke (3) Volts (4) Ambient (5) Pressure

Series	Force (lbs.)—Stroke (in.)—75°F				A	B
	.015"	.050"	.150"	.250"		
8002	6.0 #	2.5 #	0.5 #	0.2 #	.750	1.195 1.475
8005	11.0	4.0	2.0	1.0	1.000	1.375 1.795
8010	17.0	8.0	2.5	1.5	1.125	1.695 2.115
8015	32.0	15.0	5.0	3.0	1.312	1.715 2.135
8020	43.0	21.5	7.5	4.0	1.500	2.075 2.630
8025	75.0	40.0	12.5	6.5	1.750	2.260 2.945
8030	95.0	60.0	18.0	11.5	2.000	2.535 3.185



8040	8.5 #	2.5 #	0.5 #	0.2 #	1.000	.825 1.250
8045	32.5	12.5	2.5	1.5	1.500	1.075 1.630
8050	75.0	34.0	10.5	5.5	2.000	1.350 2.000

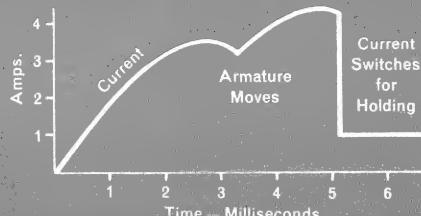
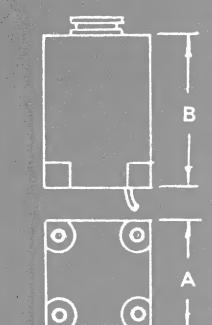


8060	.010"	.015"	.020"	.030"		
8060	5.5 #	3.0 #	2.0 #	0.5 #	1.190	.500 .500
8070	12.0	7.0	4.5	1.5	1.690	.580 .580
8080	40.0	25.0	12.5	6.5	2.250	.750 .750



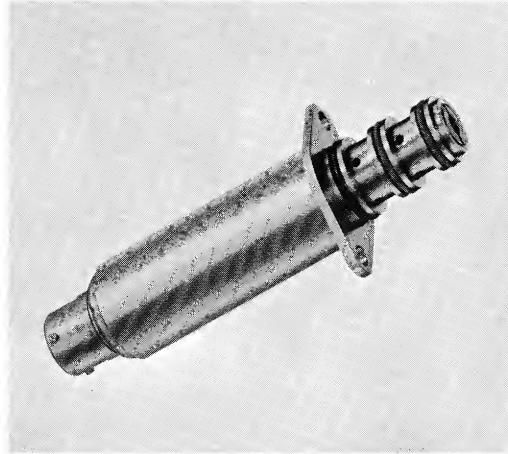
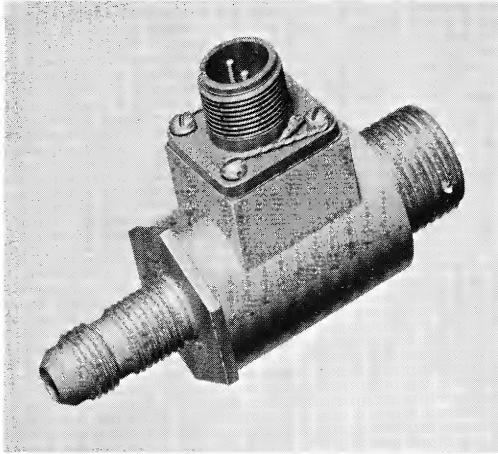
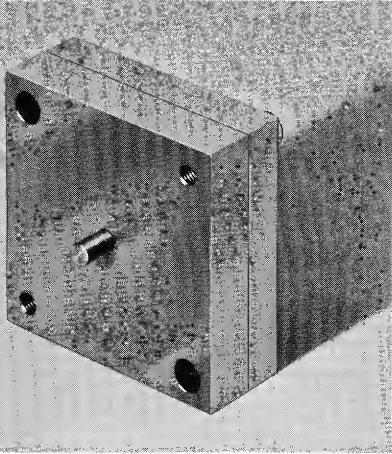
Series	Duty	Force (lbs.)		A	B
		.015	.030		
8105 DC	Cont.	4.0	1.0	1.125	2.010 1.695
	50% on	7.5	2.5		
	10% on	20.0	12.0		
8110 DC	Cont.	8.0	2.0	1.500	2.350 2.130
	50% on	16.0	4.0		
	10% on	45.0	20.0		
8160 AC	Cont.	4.0	3.0	1.500	2.890 2.670
	50% on	5.0	4.0		
	10% on	6.0	5.0		

Basic Fixed Stroke



A typical driver application using Series 8110 with Type B Driver. 20# load moves .020" in 5 MS. Current then reduces to low value, holding load continuously.

## SPECIAL PRODUCTS

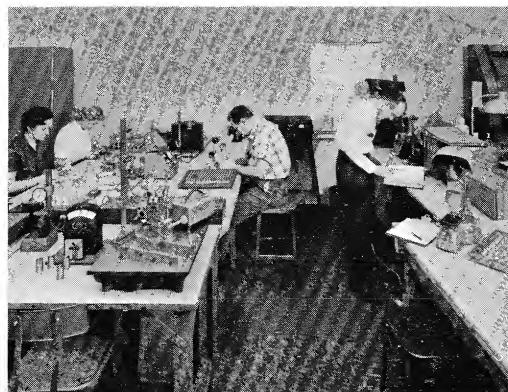
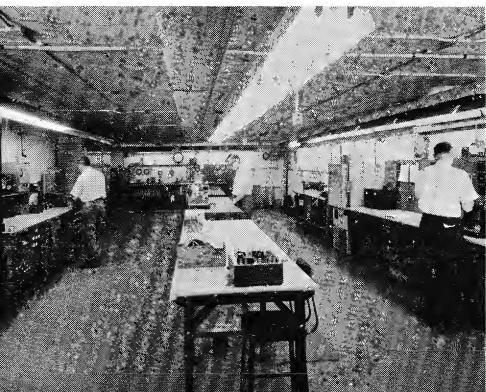


Commercial Wafer Solenoid. High force, short stroke operation in a reliable and economical design using a minimum number of parts.

Flow-thru Solenoid for use as a valve operator where the flow thru the armature passage is necessary to the valve design.

Magnetically-latched Solenoid with an annular three-way valve. Solenoid latches in either direction when power is applied.

## MODERN FACILITIES



Qualified and experienced engineers, plus facilities for complete research and development of the product.

Model-shop facilities for prompt prototype delivery; production machine shop equipment for quantity production.

Government approved quality control facilities for uniform and precise material control throughout production run.